==========

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=4; day=25; hr=20; min=44; sec=34; ms=741;]

==========

****

Reviewer Comments:

<210> 3

<211> 40

<212> DNA

<213> primer for S. uberis dna

The above <213> response is invalid, per Sequence Rules. The only valid responses are: the Genus species of the organism, "Artificial Sequence," or "Unknown." "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please give the source of the genetic material. Same error in Sequence 4.

****

Validated By CRFValidator v 1.0.3

Application No: 10524198 Version No: 4.0

Input Set:

Output Set:

Started: 2009-04-16 09:54:53.972
Finished: 2009-04-16 09:54:54.339
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 367 ms
Total Warnings: 4
Total Errors: 0
No. of SeqIDs Defined: 6
Actual SeqID Count: 6

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)

<110> Nuijten, Petrus J.
Hensen, Selma M.

<120> Streptococcus Uberis Protein, Nucleic Acid Sequence Encoding the same and its use a Mastitis Vaccine

<130> 2002.013 US

<140> 10524198
<141> 2005-02-10

<150> EP 02078325.4
<151> 2002-08-12

<150> PCT/EP2003/008704
<151> 2003-08-06

<160> 6

<170> PatentIn version 3.3

<210> 1
<211> 603
<212> DNA
<213> Streptococcus uberis

<220>
<223> Chromosomal DNA

<400> 1
atgtttaaat ttttaaagcg tgttgttttt ctagcttttc tgatttttg tttttatcaa 60

gcttatataa cacatcaaaa tgtacaaaat gtcatgcaat acaaaccaat ggttgaaaaa 120

accttggctg aaaatgatac gactgccaat gtcaatttag ttttagcaat gatctacaca 180

gaaacaaaag gtggtcaggc agatgtcatg caatctagcg aaagtagtag tggtgtgact 240

aactcaatta ccgacagtca atctagtatt caacacggtg tcaaactctt gtctgagaat 300

ttgactttag ctgagaaagc tggagtagac tcttggactg cagtacaagc ttacaatttt 360

ggaacagctt acattgatta tgtggcaaaa aatggtggtg acaacactat ctctttggct 420

agtcattatt ctaaaagtgt tgtagctcca agtttaggga ataaggatgg aaaaatgtat 480

ttatattacc atccaattgc cctcctctat ggcggtaaac tttatcaaaa tggtggtaat 540

atttattatt cacgagaagt tcattttaat tattacctca tacaattatt atctaaattt 600

taa 603

<210> 2

<211> 200
<212> PRT
<213> Streptococcus uberis

<220>
<223> Cell wall protein

<400> 2

```
Met Phe Lys Phe Leu Lys Arg Val Val Phe Leu Ala Phe Leu Ile Phe
1               5                  10                  15


Cys Phe Tyr Gln Ala Tyr Ile Thr His Gln Asn Val Gln Asn Val Met
            20                  25                  30


Gln Tyr Lys Pro Met Val Glu Lys Thr Leu Ala Glu Asn Asp Thr Thr
        35                  40                  45


Ala Asn Val Asn Leu Val Leu Ala Met Ile Tyr Thr Glu Thr Lys Gly
    50                  55                  60


Gly Gln Ala Asp Val Met Gln Ser Ser Glu Ser Ser Ser Gly Val Thr
65                  70                  75                  80


Asn Ser Ile Thr Asp Ser Gln Ser Ser Ile Gln His Gly Val Lys Leu
                85                  90                  95


Leu Ser Glu Asn Leu Thr Leu Ala Glu Lys Ala Gly Val Asp Ser Trp
            100                 105                 110


Thr Ala Val Gln Ala Tyr Asn Phe Gly Thr Ala Tyr Ile Asp Tyr Val
        115                 120                 125


Ala Lys Asn Gly Gly Asp Asn Thr Ile Ser Leu Ala Ser His Tyr Ser
    130                 135                 140


Lys Ser Val Val Ala Pro Ser Leu Gly Asn Lys Asp Gly Lys Met Tyr
145                 150                 155                 160


Leu Tyr Tyr His Pro Ile Ala Leu Leu Tyr Gly Gly Lys Leu Tyr Gln
                165                 170                 175


Asn Gly Gly Asn Ile Tyr Tyr Ser Arg Glu Val His Phe Asn Tyr Tyr
            180                 185                 190
```

Leu Ile Gln Leu Leu Ser Lys Phe
195 200

<210> 3
<211> 40
<212> DNA
<213> primer for S. uberis dna

<220>
<223> Synthetic DNA primer

<400> 3
catgccatgg ggcatatgta tataacacat caaaatgtac 40

<210> 4
<211> 31
<212> DNA
<213> primer for S. uberis dna

<220>
<223> Synthetic DNA primer

<400> 4
gcgggatcca aatttagata ataattgtat g 31

<210> 5
<211> 299
<212> DNA
<213> Artificial

<220>
<223> Expression construct

<400> 5
atcgagatct cgatcccgcg aaattaatac gactcactat agggagacca caacggtttc 60

cctctagaaa taattttgtt taactttaag aaggagatat accatgggca gcagccatca 120

tcatcatcat cacagcagcg gcctggtgcc gcgcggcagc catatgatat cgaattcaag 180

cttggtaccg ctagcactag tgagctcacc ggtctcgagc ggccgcggat cccaccatca 240

ccatcaccat caccatcacc attaatcgat gataagctgt caaacatgag cttgaagac 299

<210> 6
<211> 53
<212> PRT
<213> Artificial

<220>
<223> Expression product of expression construct

<400> 6

```
Met Gly Ser Ser His His His His His Cys Ser Ser Gly Leu Val Pro
1               5                   10                  15

Arg Gly Ser His Met Ile Ser Asn Ser Ser Leu Val Pro Leu Ala Leu
            20                  25                  30

Val Ser Ser Pro Val Ser Ser Gly Arg Gly Ser His His His His His
        35                  40                  45

His His His His His
    50
```